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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number	10/761,537
Filing Date	1/21/2004
First Named Inventor	David W. Brown
Group Art Unit	2125
Examiner Name	
Attorney Docket Number	P214419

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
/ZC/	1	4,494,060		Chitayat et al.	01-15-1985	
	2	4,750,888		Allard et al.	06-14-1988	
	3	4,716,458		Heitzman et al.	12-29-1987	
	4	4,901,218		Cornwell	02-13-1990	
	5	5,014,208		Wolfson	05-07-1991	
	6	5,204,599		Hohn	04-20-1993	
	7	5,613,117		Davidson et al.	03-18-1997	
	8	5,836,014		Faiman, Jr.	11-10-1998	
	9	5,418,964		Conner et al.	05-23-1995	
	10	5,659,753		Murphy et al.	08-19-1997	
	11	5,692,195		Conner et al.	11-25-1997	
	12	5,577,253		Blickstein	11-19-1996	
	13	5,691,897		Brown et al.	11-25-1997	
	14	6,305,011		Safonov	10-16-2001	
	15	5,802,365		Kathail et al.	09-01-1998	
	16	5,666,264		Chandler et al.	09-09-1997	
	17	5,766,077		Hongo	06-16-1998	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number	Kind Code ⁵ (if known)				

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/Zoila Cabrera/ (01/22/2008)

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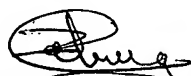
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Sheet 1 of 2

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IZC/	1	FITZGERALD, M. , BARBERA, A.; "A Low-Level Control Interface for Robot Manipulators", Robotics and Computer-Integrated Manufacturing, 1985, Vol. 2, No. 3/4, pp. 201-213	
	2	REMBOLD, J. , BLUME, C. , FROMMHERZ, B.; "The Proposed Robot Software Interfaces SRL and IRDATA", Robotics and Computer-Integrated Manufacturing, 1985, Vol. 2, No. 3/4, pp. 219-225	
	3	TAYLOR, R.; "A General Purpose Control Architecture for Programmable Automation Research", IBM T.J. Watson Research Center, 1986, pp. 165-173	
	4	HAYWARD, V. , PAUL, R.; "Robot Manipulator Control under Unix RCCL: A Robot Control "C" Library", The International Journal of Robotics Research, 1986, Vol 5, No 4, pp 94-111	
	5	LLOYD, J. , PARKER, M. , MCCLAIN, R.; "Extending the RCCL Programming Environment to Multiple Robots and Processors", IEEE, 1988, pp. 465-469	
	6	MANGASER, A. , WANG, Y. , BUTNER, S.; "Concurrent Programming Support for a Multi-Manipulator Experiment on RIPS", IEEE, 1989, pp. 853-859	
	7	KASAHARA, T.; "MAP 2.0 Entering the Practical Use Period in the CIM Era: MAP 3.0 MMS Architecture and Mounting Method", Ohmsha Ltd., 3/1/1990, pp. 57-62, Computer and Network LAN Volume 8, No. 3.	
	8	SMITH, M.; "An Environment for More Easily Programming a Robot", International Conference on Robotics and Automation, 5/1/1992, pp. 10-16	
	9	NIELSEN, L. , TROSTMANN, S. , TROSTMANN, E.; "Robot Off-line Programming and Simulation As a True CIME-Subsystem", International Conference on Robotics and Automation, 5/1/1992, pp. 1089-1094	
	10	ALBUS, J.; "A Reference Model Architecture for Intelligent Systems Design", NIST, 1993, pp. 1-38.	
IZC/	11	MILLER, D.; "Using Generic Tool Kits to Build Intelligent Systems (AIAA 94-1214)", Sandia National Laboratories, 3/9/1994, pp. 1-9	

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1/22/08

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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/ZC/	12	SAKAI, K.; "Object Orientation and C++ Language: Facts of Object-Oriented Programming", CQ Publishing Co., Ltd., 6/1/1994, Vol. 20, No. 6, pp. 83-93	
	13	HORI, K.; "Protocol Conversion Software That Makes Possible Communication between Different Types of Field Devices", Cosmo Technica, 9/1/1994, pp. 1-12	
	14	DAIYO, M.; "The Full Color Era Has Arrived with Scanner and Printer Development", NIKKEI BYTE, 10/1/1994, No. 130, pp 160-172.	
	15	FANUC LTD.; "FANUC Robot i series Product Manual", 1995, pp. 1-8	
	16	KOIZUMI, A.; "Pursuing Design Development with a Focus on Compatibility and Permeability with Incorporation of Worldwide Standard Specifications", Instrumentation: Instrumentation and Control Engineering, 5/1/1995, Vol. 38, No. 5, pp. 58-62	
	17	PIRJANIAN, CHRISTENSEN; "Hierarchical Control for Navigation Using Heterogeneous Models", 11/1/1995, 19 pages, Denmark.	
	18	GE FANUC; "TCP/IP Ethernet Communications for the Series 90 -70 PLC", 1996	
	19	BARUCH, J. , COX, M.; "Remote control and robots: an Internet solution", Computing and Control Engineering Journal, 2/1/1996	
/ZC/	20	BURCHARD, R. , FEDDEMA, J.; "Generic Robotic and Motion Control API Based on GISC-Kit Technology and CORBA Communications", Sandia National Laboratories, 4/1/1996, pp. 712-717	

Examiner Signature	/Zoila Cabrera/ (01/22/2008)	Date Considered
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